Declaration of Performance

No DOP 48880

Revision 2, August 2023

1)	Unique identification code of the product-type	Hempafire Optima 500
2)	Intended Use:	Water borne reactive coating for the fire protection of structural steel
3)	Manufacturer:	Hempel A/S Lundtoftegårdsvej 91 DK-2800 Kgs Lyngby Denmark
4)	Authorised Representative:	N/A
5)	System/s of AVCP:	System 1
6a)	Harmonised Standard:	N/A
	Notified Bodies:	N/A
6b)	European Assessment Document:	EAD 350402-00-1106 (September 2017)
	European Technical Assessment:	ETA 23/0422, 12.07.2023
	Technical Assessment Body:	ITeC
	Notified Body/ies:	ITeC(1220)
7)	Declared Performance	See table 1

Table 1: Declared Performance

Essential Characteristic	Performance		Technical Specification
Reaction to Fire	B-s1,d0		EN13501-1:2007 + A1:2010
Fire Resistance	H or I Sections beams and columns, and Rectangular or Circular Hollow Columns: R15, R30, R45, R60, R90, R120, at design temperatures from 300°C – 850°C		Tested according EN13381-8:2013 and classified according EN 13501-2-2016
Smouldering fire exposure	Meet requirements		EN13381-8:2013, Annex A
Durability	Without a topcoat Topcoated with approved topcoat	Type Z_2 See table 3	section 2.2.5 of EAD 350402-00-1106
Release of dangerous substances	The product does not contain substances above threshold limits listed on Annex XIV (Authorisation list) or Annex XVII (Restriction list) or Candidate list (Substances of very high concern) under EU REACH 1907/2006.		

Table 2: Approved Primers for Hempafire Optima 500

Essential Characteristic	Performance	Technical Specification
Compatibility of primers on carbon steel by generic family (as supported by EAD350402-00-1106)	2-component Epoxy – SB	Section 2.3.4.2 of EAD 350402-00-1106
	2-component Epoxy – WB	
	1-component Epoxy - SB	
	Alkyd - SB	
	Alkyd - WB	
	Acrylics - WB	
	Zinc Rich Epoxy – SB	
	Activated Zinc primer - SB	
Compatibility of primers on galvanised steel (EN 1463), 175µm zinc coating	Hempadur 15553 , 100µm Hempaprimer Multi 500 45950, 150µm Hemucryl 48191, 100µm	
Compatibility of primers on Thermally Sprayed Aluminium (TSA), 175µm aluminium coating	Hempadur 15570, 150µm	
Compatibility of primers on Thermally Sprayed Zinc (TSZ), 75µm zinc coating	Hempadur 15570, 130µm	

SB = Solvent Borne

WB = Water Borne

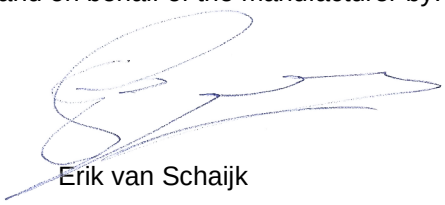
Table 3: Approved Topcoats for Hempafire Optima 500

Type	Topcoats for Type Y environmental use
Polyurethane - SB	Hempathane HS 55610
	Hempathane Fast Dry 55750
Polyurethane - WB	Hemuthane Enamel 58510
	Hemuthane WB Top 58530
	Hemuthane WB Top 58531
Type	**Topcoats for Type Z_1 environmental use**
Acrylic - WB	Hemucryl 48191
	Hemucryl 48120
	Hemucryl Enamel Hi-build 58030

8) Appropriate Technical Documentation and/or Specific Technical Documentation N/A

The performance of the product identified above is in conformity with the set f declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above

Signed for and on behalf of the manufacturer by:



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